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KEY TO KEITH
ON THE
GLOBES.



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A K E Y
TO
KEITH'S TREATISE
ON THE
USE OF THE GLOBES;
CONTAINING THE
ANSWERS TO QUESTIONS
IN THE
NEW AND IMPROVED EDITION OF THAT
WORK.

BY

W. H. PRIOR,

INVENTOR OF THE ASTRONOMICON; ALSO OF THE NEW
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ILLUSTRATED BY THE ASTRONOMICON," ETC. ETC.

New Edition.

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PREFACE.

THE Editor of the new edition of Mr. Keith's Treatise on the Use of the Globes, conceiving that a Key, containing the answers to the questions in that valuable work, would tend very considerably to enlarge the sphere of its utility, by affording facilities to the teacher, and rendering it accessible to the private student, presumes to submit the following sheets to their notice, in which he flatters himself that the answers to the several questions will be found as correct as the nature of the subject will allow; and although, generally speaking, it is not to be expected, that latitudes, longitudes, declinations, &c. should be ascertained by means of the globes, to nearer than quarters of degrees, yet it is thought expedient to give them in this key, correct generally to the nearest minute, and, in some important cases, to the nearest second. It will thus furnish the preceptor with accurate information with-

out recurring to other sources ; and it will enable him, on all suitable occasions, to show his pupils the value of *correct* knowledge on all such points, as well as how to turn it to account in the construction of maps, and various other useful operations. Judiciously employed, also, this knowledge may serve to excite the love of accuracy. In order to render the Key as perfect as possible, the author has adapted those solutions which are obtained by the aid of the Nautical Almanac to the improved state of that work for the year 1834; which he trusts will be admitted as an additional recommendation to the present undertaking.

Since the preceding Preface was written, Mr. Rowbotham has altered the solutions of such problems as he has introduced into the last edition of Mr. Keith's Treatise on the Globes.

KEY
TO
KEITH'S TREATISE
ON
THE GLOBES.

PROBLEMS ON THE TERRESTRIAL GLOBES.

PROBLEM I.

| | | | | |
|--------------|---|---|---|------------|
| 2. Amsterdam | - | - | - | 52° 22' N. |
| Archangel | - | - | - | 64 34 N. |
| Barcelona | - | - | - | 41 23 N. |
| Florence | - | - | - | 43 47 N. |
| Gibraltar | - | - | - | 36 6 N. |
| Hamburgh | - | - | - | 53 33 N. |
| Philadelphia | - | - | - | 39 57 N. |
| Quebec | - | - | - | 46 47 N. |
| Rio Janeiro | - | - | - | 22 54 S. |

3. The latitudes of places being reckoned *from* the equator, all places situated *on* that line are said to have no latitude.

4. The greatest latitude a place can have is 90° ; and the only places which can have this latitude are the north and south poles.

PROBLEM II.

2. Riga, Caynsk, Kamtschatka, part of Labrador, &c.

3. Antwerp, Leipsic, Warsaw, Orenburg, Cape Lopatka, S. part of James's Bay, N. point of Newfoundland, &c.

4. Nanking, Nagasaki, Cape Cochrane, Kiusin Isle, N. end of the Gulf of California, Charlestown, Tripoli, &c.

5. St. Domingo, St. Bartholomew Isle, N. part of Isle of Lucca, part of Ladrone Islands.

PROBLEM III.

| | | | |
|----------------|---|---|----------------------|
| 3. Aberdeen | - | - | $2^{\circ} 2' W.$ |
| Alexandria | - | - | $30^{\circ} 1' E.$ |
| Barbadoes | - | - | $59^{\circ} 38' W.$ |
| Bombay | - | - | $73^{\circ} 2' E.$ |
| Botany Bay | - | - | $151^{\circ} 20' E.$ |
| Canton | - | - | $113^{\circ} 8' E.$ |
| Carlscrona | - | - | $15^{\circ} 39' E.$ |
| Cayenne | - | - | $52^{\circ} 9' W.$ |
| Civita Vecchia | - | - | $11^{\circ} 50' E.$ |

4. The greatest possible longitude is 180° , and places so situated may have their longitude denominated either east or west. Longitude is sometimes reckoned in time; in which case the greatest longitude is twelve hours.

PROBLEM IV.

2. St. Petersburgh, Dongola, &c.
 3. Saragossa, Castillon, and Denia, in Spain; Acara in Africa, &c.
 4. Philadelphia, Baltimore, Chesapeak Bay, Cuba, Gulf of Darien, Quito, Lima, Canpana Island, &c.
 5. *London*,—Answered in Example 3.
Pekin,—Zehol in Chinese Tartary, Palawan Isle, Eastern coast of Borneo, Balli Isle, &c.
Quebec,—Boston, Rhode Island, middle of the Island of St. Domingo, Gulf of Venezuela, Chili, Western coasts of Patagonia, Terra del Fuego, &c.
Dublin,—Seville and Cadiz in Spain, Fez in Africa, and the Island of St. Helena.
Sandwich Islands,—Foggy Cape, *Alaska* in North America, Society Islands, &c.
Pelew Islands,—Western part of Niphon, Sikeki Island, western part of New Guinea, Coffin's Bay, New Holland, &c.

PROBLEM V.

| | | Latitudes. | Longitudes. |
|-------------|---|------------|-------------|
| 2. Acapulco | - | 16° 50' N. | 99° 40' W. |
| Aleppo | - | 36 11 N. | 37 16 E. |
| Algiers | - | 36 47 N. | 3 11 E. |
| Archangel | - | 64 34 N. | 39 5 E. |
| Belfast | - | 54 35 N. | 5 51 W. |
| Bergen | - | 60 24 N. | 5 26 E. |
| Cusco | - | 13 42 S. | 71 0 W. |
| Copenhagen | - | 55 41 N. | 12 41 E. |
| Durazzo | - | 41 19 N. | 19 33 E. |

| | | Latitudes. | Longitudes. |
|----------------|---|------------|-------------|
| Elsinore | - | 56° 2' N. | 12° 44' E. |
| Flushing | - | 51 27 N. | 3 33 E. |
| Cape Guardafui | - | 10 31 N. | 51 10 E. |
| Lima | - | 12 3 S. | 77 1 W. |
| Lizard | - | 49 58 N. | 5 11 W. |
| Lubec | - | 53 51 N. | 10 47 E. |
| Malacca | - | 2 10 N. | 102 11 E. |
| Manilla | - | 14 36 N. | 120 57 E. |
| Medina | - | 24 20 N. | 35 56 E. |

PROBLEM VI.

| | |
|-------------------|-------------------------|
| 2. Land's End | St. Petersburgh |
| Vienna | Quito |
| Edinburgh | Quebec |
| Amsterdam | Stockholm |
| Alexandria | Trincomalé |
| Archangel | Macassar |
| Cape of Good Hope | Rio Janeiro, or St. Se- |
| Bencoolen | bastian |
| Buenos Ayres | Gibraltar |
| Ispahan | Madeira |
| Mexico | |

PROBLEM VII.

| | | | Difference. |
|--------------|---|--------------|-------------|
| 3. London | - | - 51° 31' N. | |
| Rome | - | - 41 54 N. | 9° 37' |
| Delhi | - | - 28 41 N. | |
| Cape Comorin | - | - 7 56 N. | 20 45 |
| Vera Cruz | - | - 19 12 N. | |
| Cape Horn | - | - 55 59 S. | 75 11 |

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| | | Difference. |
|-------------------|---|----------------------|
| Mexico | - | 19° 26' N. |
| Botany Bay | - | 34 0 S. 53° 26' |
| Astracan | - | 46 21 N. |
| Bombay | - | 18 57 N. 27 24 |
| St. Helena | - | 15 55 S. |
| Manilla | - | 14 36 N. 30 31 |
| Copenhagen | - | 55 41 N. |
| Toulon | - | 43 7 N. 12 34 |
| Brest | - | 48 23 N. |
| Inverness | - | 57 31 N. 9 8 |
| Cadiz | - | 36 32 N. |
| Sierra Leone | - | 8 30 N. 28 2 |
| Alexandria | - | 31 13 N. |
| Cape of Good Hope | - | 33 55 S. 65 8 |
| Pekin | - | 39 54 N. |
| Lima | - | 12 3 S. 51 57 |
| St. Salvador | - | 12 59 S. |
| Surinam | - | 5 52 N. 18 51 |
| Washington | - | 38 55 N. |
| Quebec | - | 46 47 N. 7 52 |
| Trinidad | - | 10 39 N. |
| Trincomalé | - | 8 32 N. 2 7 |
| Bencoolen | - | 3 49 S. |
| Calcutta | - | 22 35 N. 26 24 |

4. The North and South Poles, whose difference of latitude is 180°.

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PROBLEM VIII.

| | | | | Difference. |
|---------------------|---|----------|-----------|-------------|
| 4. Vera Cruz | - | - | 96° 3' W. | |
| Canton | - | - | 113 8 E. | |
| | | | | |
| then | - | 360 | - 209 11 | = 150° 49' |
| Bergen | - | - | - 5 26 E. | |
| Bombay | - | - | 73 2 E. | 67 36 |
| Columbo | - | - | 79 51 E. | |
| Mexico | - | - | 98 59 W. | 178 50 |
| Juan Fernandez Isle | - | 78 55 W. | | |
| Manilla | - | - | 120 57 E. | |
| | | | | |
| then | - | 360 | - 199 52 | = 160 8 |
| Pelew Islands | - | - | 134 56 E. | |
| Ispahan | - | - | 51 56 E. | 89 0 |
| Boston | - | - | 70 58 W. | |
| Berlin | - | - | 13 28 E. | 84 26 |
| Constantinople | - | 29 5 E. | | |
| Batavia | - | - | 107 0 E. | 77 55 |
| Bermudas Island | - | 64 27 W. | | |
| Isle of Rhodes | - | 28 19 E. | | 92 46 |
| Port Patrick | - | 4 57 W. | | |
| Berne | - | - | 7 32 E. | 12 20 |
| Mount Hecla | - | 22 0 W. | | |
| Mount Vesuvius | - | 14 24 E. | | 36 24 |
| Mount Etna | - | - | 15 7 E. | |
| Teneriffe | - | - | 16 34 W. | 31 41 |
| North Cape | - | - | 25 56 E. | |
| Gibraltar | - | - | 5 14 W. | 31 10 |

5. 180° being the difference of longitude between two opposite meridians.

PROBLEM IX.

| | | | |
|-----------------------------------------------------|------------------|----------|------------------------------------|
| 2. $68^{\circ} = 4080$ | geographical, or | 4699^* | English miles. |
| 3. $35 = 2100$ | — | or 2419 | — |
| 4. $66 = 3960$ | — | or 4561 | — |
| 5. $46 = 2760$ | — | or 3179 | — |
| From the Lizard to St. Anthony | - | - | $36\frac{1}{2}$ |
| St. Anthony to St. Helena | - | - | 38 |
| St. Helena to Cape of Good Hope | - | - | 29 |
| Cape of Good Hope to Mauritius | - | - | 37 |
| Mauritius to 3° E. of Dendra Head (Ceylon) | - | - | 37 |
| Thence to Madras | - | - | 9 |
| | | Total | <u>$186\frac{1}{2}$</u> |

Then $186\frac{1}{2}^{\circ} = 11190$ geographical, or 12887 English miles.

PROBLEM X.

2. N. Cape in Iceland, Tornea, Novogorod, Kiow, and Cape Blanco in Africa, &c.
3. N. Cape in Lapland, Santa Cruz on the Morocco coast, Madeira Isles, and St. Michael, one of the Western Isles.

* When the decimals amount to or exceed .5, one mile is added; when the decimals are less than .5, they are rejected; thus, in the present example, the true answer is 4698·8; which is, therefore, called 4699 miles.

4. London, Rhodes Island, eastern extremity of Candia, Madrid, &c.

PROBLEM XI.

3. $1520 \cdot 2 + 69 \cdot 1 = 22^\circ$. The place required, therefore, is Constantinople.

4. $3660 + 60 = 61^\circ$. Hence the place required is Barbadoes.

PROBLEM XII.

2. $3120 + 60 = 52^\circ$. Hence the required place is Philadelphia.

3. $2211 \cdot 2 + 69 \cdot 1 = 32^\circ$. Hence the place required is Cairo in Egypt.

4. $1520 \cdot 2 + 69 \cdot 1 = 22^\circ$. Hence Constantinople is the place required.

PROBLEM XIII.

| | Degrees. | G. Miles. | E. Miles. |
|-----------------|----------|----------------------|-----------|
| Surinam | - | $14\frac{3}{4} = 59$ | or 67.9 |
| Barbadoes | - | $14\frac{1}{2} = 58$ | or 66.8 |
| Havannah | - | $13\frac{3}{4} = 55$ | or 63.3 |
| Bermudas Island | - | $13 = 52$ | or 59.8 |
| Washington | - | $11\frac{1}{2} = 46$ | or 52.9 |
| Quebec | - | $10\frac{1}{4} = 41$ | or 47.2 |
| Skalholt | - | $6\frac{1}{2} = 26$ | or 29.9 |
| North Cape | - | $4\frac{1}{4} = 19$ | or 21.9 |
| Spitzbergen | - | $3\frac{1}{2} = 14$ | or 16.1 |
| Cape Verd | - | $14\frac{1}{2} = 58$ | or 66.8 |
| Alexandria | - | $13 = 52$ | or 59.8 |
| Paris | - | $9\frac{1}{4} = 39$ | or 44.9 |

PROBLEM XIV.

| | | | | |
|--------------|--------------|-------------|---|----------|
| 3. Amsterdam | E.N.E. | Lisbon | - | S.S.W. |
| Athens | - S.E. by E. | Madrid | - | S. by W. |
| Bergen | - N.N.E. | Naples | - | S.E. |
| Berlin | - E. by N. | Paris | - | S.S.E. |
| Berne | - S. E. | Petersburgh | - | N.E. |
| Brussels | - E. by S. | Prague | - | E. by S. |
| Buda | - E.S.E. | Rome | - | S.E. |
| Copenhagen | N.E. by E. | Stockholm | - | N.E. |
| Dublin | - N.W. by W. | Vienna | - | E.S.E. |
| Edinburgh | N. by W. | Warsaw | - | E. by N. |

PROBLEM XV.

| | | | | | |
|----------------|-----|--------------------------------|---|----|----|
| 4. Amsterdam | - | 66° from the N. towards the E. | | | |
| Berlin | - | 71 | - | N. | - |
| Berne | - | 135 | - | N. | - |
| Constantinople | 104 | | - | N. | - |
| Copenhagen | - | 51 | - | N. | - |
| Cairo | - | 120 | - | N. | - |
| Lisbon | - | 150 | - | N. | - |
| Madras | - | 88 | - | N. | - |
| Rome | - | 132 | - | N. | - |
| Stockholm | - | 42 | - | N. | - |
| Petersburgh | - | 48 | - | N. | - |
| Quebec | - | 68 | - | N. | - |
| | | | | | W. |
| | | | | | E. |
| | | | | | W. |

PROBLEM XVI.

2. Antœci.—In the Mediterranean Sea, a little north of the Gulf of Sidra.

Periceci.—In the South Pacific Ocean, considerably

to the E. of the most northerly point of New Zealand.

Antipodes. — In the North Pacific Ocean, about N.N.W. of the Sandwich Isles.

3. Near London.
4. South-eastern part of Labrador, north of the Gulf of St. Lawrence.
5. Caribbee Isles.
6. In the Yellow Sea, about N.E. of Nankin.

PROBLEM XVII.

| G. Miles. | E. Miles. |
|-----------|-----------|
|-----------|-----------|

Skalholt.—A degree of long.

(by Prob. 13.) contains - 26 or 29·9
which respectively multi-

plied by 15 gives - 390 or 448·5 per hour

Spitzbergen.—A degree of long. (by Prob. 13.) contains 14 or 16·1

which respectively multiplied by 15 gives - 210 or 241·5 per hour

Petersburgh.—A degree of long. (by Prob. 13.) contains 30 or 34·5
which respectively multiplied by 15 gives - 450 or 517·5 per hour

London.—A degree of long.

(by Prob. 13.) contains - 38 or 43·7
which respectively multiplied by 15 gives - 570 or 655·5 per hour.

Philadelphia.—A degree of long. (by Prob. 13.) contains 46 or 52·9

| | G. Miles. | E. Miles. |
|--------------------------------------------------------------|-----------------|-----------|
| which respectively multiplied by 15 gives | - 690 or 793.5 | per hour. |
| Cairo.—A degree of long. (by Prob. 13) contains | - 52 or 59.9 | |
| which respectively multiplied by 15 gives | - 780 or 898.5 | per hour. |
| Barbadoes.—A degree of long. (by Prob. 13.) contains | 58 or 66.8 | |
| which respectively multiplied by 15 gives | - 870 or 1002 | per hour. |
| Quito.—A degree of long. (by Prob. 13.) contains | - 60 or 69.1 | |
| which respectively multiplied by 15 gives | - 900 or 1036.5 | per hour. |
| Cape of Good Hope.—A degree of long. (by Prob. 13.) contains | - - 50 or 57.5. | |
| which respectively multiplied by 15 gives | - 750 or 862.5 | per hour. |
| Calcutta.—A degree of long. (by Prob. 13.) contains | - 56 or 64.5 | |
| which respectively multiplied by 15 gives | - 840 or 967.5 | per hour. |
| Delhi.—A degree of long. (by Prob. 13.) contains | 52 or 59.9 | |
| which respectively multiplied by 15 gives | - 780 or 898.5 | per hour. |
| Batavia.—A degree of long. (by Prob. 13.) contains | - 60 or 69.1 | |
| which respectively multiplied by 15 gives | - 900 or 1036.5 | per hour |

PROBLEM XVIII.

| | |
|-------------------------------|------------------|
| 3. Longitude of Calcutta .. - | $88^{\circ} 35'$ |
| | 4 |

Difference of long. in time 5 h. 54 m. 20 s.,
hence it is 54 minutes 20 seconds past 5 in the afternoon.

| | |
|---------------------------------|---------------------|
| 4. Longitude of Washington .. - | $76^{\circ} 53'$ W. |
| | 4 |

Difference of long. in time 5 h. 7 m. 32 s.
hence it is 52 m. 28 s. past 4 in the morning.

| | |
|--------------------------|---------------------|
| 5. Long. of Jamaica .. - | $76^{\circ} 48'$ W. |
| Long. of Madras .. - | $80^{\circ} 22'$ E. |

| | | | |
|--------------------------|---|---|-------------------|
| Difference of long. .. - | - | - | $157^{\circ} 10'$ |
| | | | 4 |

Ditto in time .. - 10 h. 28 m. 40 s.
hence it is 28 m. 40 s. past 7 in the evening.

| | | | |
|-------------------------|---|---|------------------|
| 6. Long. of Madras .. - | - | - | $80^{\circ} 22'$ |
| | | | 4 |

Difference of long. in time .. - 5 h. 21 m. 28 s.
hence it had gained 31 m. 28 s.

PROBLEM XIX.

3. Boston, Quebec, Island of St. Domingo, Gulf of Venezuela, &c.
4. Canton, Eastern coast of Borneo, and the Western coast of New Holland.

5. The Shetland Isles, York, &c.
6. The ship's place pointed out on the globe would be at the intersection of the parallel of 40° N. lat. by the meridian of 15° W. longitude.
7. The Friendly Isles, and all other places through which the meridian of 180° passes.
8. The same places as in the last example.

PROBLEM XX.

| | | Long. | Dec. |
|-------------|---|-------------------------|---------------------|
| 2. Jan. 21. | - | $1^{\circ} 22' \approx$ | $19^{\circ} 52' S.$ |
| Feb. 7. | - | $18 37 \approx$ | $15 16 S.$ |
| March 16. | - | $25 46 \times$ | $1 41 S.$ |
| April 8. | - | $18 29 \varphi$ | $7 15 N.$ |
| May 18. | - | $27 19 \diamond$ | $19 35 N.$ |
| June 11. | - | $20 19 \text{II}$ | $23 6 N.$ |
| July 11. | - | $18 55 \oplus$ | $22 7 N.$ |
| Aug. 1. | - | $8 59 \Delta$ | $18 2 N.$ |
| Sept. 9. | - | $16 35 \text{m}$ | $5 18 N.$ |
| Oct. 16. | - | $22 57 \Delta$ | $8 56 S.$ |
| Nov. 17. | - | $25 2 \text{m}$ | $19 2 S.$ |
| Dec. 1. | - | $9 11 \ddagger$ | $21 50 S.$ |

PROBLEMS XXI and XXII.

There are no examples to answer in these two problems.

PROBLEM XXIII.

2 The South Pole. The sun will be vertical to the southern part of Benguela and the northern part

of Caffraria in Africa,—the northern parts of Madagascar and New Holland, Cuzco in South America, St. Salvador in Brazil, &c. All the inhabitants of places lying more than 77° N. will have the sun below their horizon during several rotations of the earth on its axis. The places to which the sun will not set on that day are those that lie within 13° of the South Pole, or whose latitude exceeds 77° S.

3. Cape Barbas in Africa, Cape Ras al Gat in Arabia, Calcutta, southern extremity of Formosa Isle, Cape St. Lucas in California, and Cape St. Antonio in the island of Cuba, &c.

4. Between $68\frac{1}{2}^{\circ}$ N. and the North Pole.

5. The sun shines $18\frac{1}{4}^{\circ}$ over the South Pole, and within the same distance of the North Pole the sun does not rise. The sun is vertical to Monomotapa in Africa, the middle of the Island of Madagascar, part of New Holland, the New Hebrides, the Friendly Isles, &c.

6. The moon will be vertical to the Gold Coast and the southern part of the Island of Ceylon, the northern part of Malacca and Borneo, part of the Carolina Islands, the Isthmus of Panama, &c.

PROBLEM XXIV.

- | | | | |
|---------------------|---|---|--------------------------|
| 2. O'whýhee | - | - | 16th May and 28th July. |
| Friendly Isles | - | - | 14th Nov. and 28th Jan. |
| Straits of Macassar | - | - | 21st March and 22d Sept. |

Penang or Prince of
Wales's Isle (Coast of

| | | | |
|--------------|---|---|--------------------------|
| Malacca) | - | - | 4th April and 8th Sept. |
| Trincomalé | - | - | 12th April and 31st Aug. |
| St. Helena | - | - | 5th Nov. and 6th Feb. |
| Rio Janeiro | - | - | 9th Dec. and 3d Jan. |
| Quito | - | - | 20th March and 23d Sept. |
| Barbadoes | - | - | 24th April and 19th Aug. |
| Porto Bello | - | - | 14th April and 29th Aug. |
| Sierra Leone | - | - | 11th April and 1st Sept. |
| Vera Cruz | - | - | 16th May and 28th July. |
| Manilla | - | - | 28th April and 15th Aug. |
| Tinian Isle | - | - | 31st April and 13th Aug. |
| Pelew Isles | - | - | 8th April and 4th Sept. |

PROBLEM XXV.

- | | |
|----------------|--------------|
| 2. 19th July. | 6. 18th Aug. |
| 3. 27th May. | 7. 134 days. |
| 4. 19th April. | 8. 245 days. |
| 5. 31st Aug. | |

PROBLEM XXVI.

3. At St. Sebastian.
4. At the Pelew Isles.
5. At St. Helena.
6. At Cape Verd.
7. At O'whÿhee.
8. At Pelew Isles.

PROBLEM XXVII.

3. Rising at the eastern parts, of the Slave and Athabascow Lakes; the eastern extremity of the Island of St. Domingo;—has just risen at Porto Rico, St. Sebastian, &c.

Setting at the southern part of Kamtschatka, the Island of Niphon, the most easterly of the Philippine Isles, Straits of Macassar, Java, &c.

Noon at St. Petersburgh, a little to the east of Constantinople, Alexandria, Dongola, Monomotapa, coast of Natal, &c.

Vertical to that part of the River Nile which is intersected by the tropic of Cancer.

Midnight near the Sandwich and Society Isles.

Morning twilight at Florida, Cuba, Jamaica, Island of St. Domingo, Quito, Buenos Ayres, &c.

Evening twilight at the Ladrone Isles, Pelew Isles, western parts of New Guinea, New Holland, &c.

Daylight to all places above the horizon.

Night to all places more than 18° below it.

Midnight at the Society Isles.

4. Vertical in the S. Atlantic Ocean, nearly on the Meridian of London, due west of Banda or St. Salvador in Africa.

It is noon at London and all other places on that meridian.

The sun is rising at James's Bay, Lake Huron, Bay of Honduras, Galapagos Isles, &c.

The sun is setting at Cattack in Hindooostan, &c.

Morning twilight at Lakes Superior and Michigan, the Gulf of Mexico, &c.

Evening twilight at Calcutta, Cochin-China, Malacca, Sumatra, Java, &c.

It is midnight at the Friendly Isles, &c.

5. Vertical a little west of the meridian of London, about $3\frac{1}{4}^{\circ}$ more southerly than in the last example: the other particulars are also nearly as in the foregoing example.

6. Vertical a little west of the Sandwich Isles

Noon at Bristol Bay, the Sandwich Isles, &c.

Rising at Java, the western coast of Borneo, the western coast of New Holland, &c.

Setting at Bermudas Isles, Porto Rico, Lima, &c.

Morning twilight at Calcutta, Malacca, Sumatra, &c.

Evening twilight at London, Guyana, Amazonia, Paraguay, La Plata, Chili, Patagonia, Terra del Fuego, &c.

Midnight at Stockholm, Presburg, Gulf of Taranto, &c.

PROBLEM XXVIII.

| | Sun rises. | Sun sets. | Length of Day. | Length of Night. |
|-------------------|------------|------------|----------------------|------------------------|
| | hrs. mins. | hrs. mins. | hrs. mins. | hrs. mins. |
| 2. London | - | - | 4 11 | 7 49 |
| Gibraltar | - | - | 5 0 | 7 0 |
| Edinburgh | - | - | 7 52 | 4 8 |
| Botany Bay | - | - | 5 50 | 6 30 |
| Pekin | - | - | 5 20 | 6 40 |
| Cape of Good Hope | - | - | 4 48 | 7 12 |
| Cape Horn | - | - | 4 10 | 7 50 |
| Washington | - | - | 7 20 | 4 40 |
| Petersburgh | - | - | 7 20 | 4 40 |
| Constantinople | - | - | 5 10 | 6 50 |
| | | | 13 40 | 10 20 |

3. The Sun rises and sets at 6 o'clock.

| | | | Longest Days. | Shortest Nights. |
|-------------------|---|---|---------------|------------------|
| | | | hrs. mins. | hrs. mins. |
| 4. London | - | - | 16 35 | 7 26 |
| Petersburgh | - | - | 18 32 | 5 28 |
| Aberdeen | - | - | 17 30 | 6 30 |
| Dublin | - | - | 17 0 | 7 0 |
| Glasgow | - | - | 17 30 | 6 30 |
| Paris | - | - | 16 0 | 8 0 |
| Vienna | - | - | 15 50 | 8 10 |
| Berlin | - | - | 16 30 | 7 30 |
| Buenos Ayres | - | - | 14 10 | 9 50 |
| Botany Bay | - | - | 14 0 | 10 0 |
| Pekin | - | - | 14 50 | 9 10 |
| Cape Horn | - | - | 17 10 | 6 50 |
| Washington | - | - | 15 0 | 9 0 |
| Cape of Good Hope | - | - | 14 10 | 9 50 |
| Copenhagen | - | - | 17 10 | 6 50 |

| | | | Shortest Days. | Longest Nights |
|----------------|---|---|----------------|----------------|
| | | | hrs. mins. | hrs. mins. |
| 5. London | - | - | 7 44 | 16 16 |
| Archangel | - | - | 3 30 | 20 30 |
| Otaheita | - | - | 11 0 | 13 0 |
| Quebec | - | - | 8 20 | 15 40 |
| Lima | - | - | 11 20 | 12 40 |
| Mexico | - | - | 10 40 | 13 20 |
| St. Helena | - | - | 11 0 | 13 0 |
| Alexandria | - | - | 10 0 | 14 0 |
| Paris | - | - | 8 10 | 15 50 |
| O'whýhee | - | - | 10 40 | 13 20 |
| Lisbon | - | - | 9 30 | 14 30 |
| Falkland Isles | - | - | 8 0 | 16 0 |

| | | | | | |
|----|-----------------|---|---|-------|---------|
| 6. | St. Petersburgh | - | - | 18 | 32 |
| | Alexandria | - | - | 14 | 0 |
| | | | | <hr/> | |
| | | | | 4 | 32 Ans. |
| 7. | Alexandria | - | - | 10 | 0 |
| | Petersburgh | - | - | 5 | 40 |
| | | | | <hr/> | |
| | | | | 4 | 20 Ans. |

8. The sun rises at Spitzbergen on the 5th April at 4 o'clock, and sets at 8.

PROBLEM XXIX.

2. 19th April and 25th August.
3. 1st May and 11th August.
4. 4th May and 8th August.
5. 17th April and 26th August.
6. 21st June.

PROBLEM XXX

2. The latitude of the northern extremity of Spitzbergen is $80\frac{1}{2}^{\circ}$ N., co-latitude $9\frac{1}{2}^{\circ}$ = the sun's declination on the 14th April and the 29th August. The length of the longest day, therefore, is 137 days of 24 hours each.
3. Latitude $77\frac{1}{2}^{\circ}$ N., co-latitude $12\frac{1}{2}^{\circ}$, and length of the day 119 days.
4. Six Months.

PROBLEM XXXI.

2. Latitude $80\frac{1}{2}^{\circ}$ N., co-latitude, $9\frac{1}{2}^{\circ}$ = the sun's south declination on the 18th of October, and the

25th February ; hence the length of the longest night is 129 days of 24 hours each.

They lost sight of the sun on the 29th of October, and he reappeared on the 12th of February ; the duration of his absence was 103 days.

3. Latitude of Cape Ceverovostochnoi in Russia, 78° N., co-latitude 12° , and duration of Sun's absence 116 days.

PROBLEM XXXII.

2. Length of the longest day 137
 Length of the longest night 129

and 365 — 266 = 99 days during which the sun both rises and sets.

3. Length of the longest day 103
 Length of the longest night 97

and 365 — 200 = 165 days during which the sun both rises and sets.

4. Length of the longest day 122
 Length of the longest night 116

and 365 — 238 = 127 days during which the sun both rises and sets.

PROBLEM XXXIII.

3. The sun's declination is $11\frac{1}{2}^{\circ}$ N., hence $78\frac{1}{2}^{\circ}$ N. is the latitude required.

4. The sun's declination is 22° N. ; hence he begins to shine constantly in 68° N., and to be totally absent in 68° S. latitude.

PROBLEM XXXIV.

2. $134 - 2 = 67$ days, answering to 27th of August, when the sun's declination is 10° N., hence 80° N. is the latitude sought.

3. 2160 hours equal 90 days, which, divided by 2, gives 45, answering to the 5th of August, when the sun's declination being 17° N., the latitude sought is 73° N.

4. 115 hours equal to 48 days, which, divided by 2, gives 24, answering to the 15th of July, when the sun's declination being $21\frac{1}{2}^{\circ}$ N., the latitude sought is $68\frac{1}{2}^{\circ}$ N.

PROBLEM XXXV.

3. The sun sets at 7, and evening twilight ends about $\frac{1}{2}$ past 9, the duration of twilight, therefore, is $2\frac{1}{2}$ hours; then $12 - 9\frac{1}{2} = 2\frac{1}{2}$, the time when the morning twilight commences, and $2\frac{1}{2} + 2\frac{1}{2}$, or $12 - 7 = 5$, the time when the morning twilight ends, or the sun rises.

4. The sun sets at 55 mins. past 4, and evening twilight ends at 7; the duration of twilight, therefore, is 2 hrs. 5 mins.; then 12 hrs. — 7 hrs. 5 mins., the time when the morning twilight commences, and 5 hrs. + 2 hrs. 5 mins. = 7 hrs. 5 mins., the time when the morning twilight ends.

5. Proceeding as above, it will be found that evening twilight begins at 7, and ends at 9 hrs. 50 mins.; morning twilight begins at 2 hrs. 10 mins. and ends at 5 o'clock, the duration of twilight being 2 hrs. 50 mins.

6. Evening twilight begins at 20 minutes past 6, and ends at 50 minutes past 7 o'clock, its duration being 1 hr. 30 mins., morning twilight begins at 10 minutes past 4, and ends at 40 minutes past 5.

PROBLEM XXXVI.

2. Latitude of the Shetland Isles $60\frac{1}{4}$ ° N.; therefore $90 - (60\frac{1}{4} + 18) = 11\frac{3}{4}$ ° N.; the days answering to which are the 21st of April and the 22d of August, between which days the sun does not descend 18° below the horizon.

3. It cannot.

4. $80\frac{1}{2}$ ° Latitude of the northern end of Spitzbergen, then $80\frac{1}{2} + 18 = 98\frac{1}{2}$, extending to $8\frac{1}{2}$ ° S. Constant day or twilight therefore commences on the 27th of February: it ends on the 15th of October.

5. Proceeding as before, it will be found that constant day or twilight continues from the 22d of March to the 21st of September. The sun's rays first penetrate that part of the atmosphere which is dense enough to reflect them about the 26th of January.

PROBLEM XXXVII.

Has no examples to answer.

PROBLEM XXXVIII.

3. The longest day at Edinburgh is $17\frac{1}{2}$ hours, and $17\frac{1}{2} - 12 = 5\frac{1}{2}$ hours, or 11 half hours; hence Edinburgh is in the 11th northerly climate, and all other places on the same parallel, or situated within the limits shown by the Table of Climates, page 22.

4. The 29th climate North.
5. The 11th climate South.
6. The 4th climate. All other places situated on the same parallel, or within the limits of the same climate, as shown in the Table of Climates, page 22.

PROBLEM XXXIX.

2. It extends from latitude $8^{\circ} 34'$ to latitude $16^{\circ} 44'$, its breadth, therefore, is $8^{\circ} 10'$.
3. It extends from $30^{\circ} 48'$ to $36^{\circ} 31'$; its breadth therefore, is $5^{\circ} 43'$.
4. It extends from latitude $41^{\circ} 24'$ to $45^{\circ} 32'$ N.; its breadth is, therefore, $4^{\circ} 8'$. Some of the principal places situated in it are Bilboa, Island of Corsica, Turin, Genoa, Rome, Island of Jesso, Lakes Michigan, Huron, Erie, and Ontario, Boston, Nova Scotia, &c.
5. $1^{\circ} 32'$. It is the 13th climate.
6. $32'$. It is the 19th climate.

PROBLEM XL.

2. The two equinoctial and the two solstitial days.
3. 9 minutes, the sun being faster than the clock.
4. $5\frac{1}{2}$ minutes, the sun being faster than the clock.

PROBLEM XLI.

- | | |
|------------------------------|------------------------------|
| 2. $38\frac{1}{2}^{\circ}$. | 5. $79\frac{1}{2}^{\circ}$. |
| 3. 15° . | 6. $72\frac{1}{2}^{\circ}$ |
| 4. $57\frac{1}{2}^{\circ}$. | |

EXAMPLES TO THE NOTE.

2. $38^{\circ}\frac{1}{2}$.
3. $22\frac{1}{2}^{\circ}$
4. 62° .

PROBLEM XLII.

2. 11° .
3. 9° .
4. Supposing the latitude to be 78° N., the Sun's altitude will be $10\frac{1}{2}^{\circ}$.

PROBLEM XLIII.

2. Rises N.E. by E., and sets N.W. by W.
3. Rises S.E. by E. $\frac{1}{2}$ E., sets S.W. by W. $\frac{1}{2}$ W.
4. Rises due E., and sets due W.
5. Rises E.S.E. $\frac{1}{4}$ E., sets W.S.W. $\frac{1}{4}$ W.
6. Rises S.E. by S. $\frac{1}{2}$ E., sets S.W. by S. $\frac{1}{2}$ W.
7. About 17° E.
8. About 12° W.

PROBLEM XLIV.

2. Altitude 9° , azimuth N. 76° E.
3. At $\frac{1}{2}$ past 6 o'clock A. M.; azimuth N. 69° E., altitude 14° .
At $\frac{1}{2}$ past 10 o'clock A. M., azimuth N. 69° E., altitude 67° .
4. At 6 h. 8 m. A. M., azimuth N. 67° E., altitude 8° .
At 9 h. 45 m. A. M., azimuth N. 67° E., altitude 57° .
At 2 h. 15 m. P. M., azimuth N. 67° E. altitude 57° .

At 5 h. 52 m. P. M., azimuth N. 67° E., altitude 8° .

5. True azimuth S. 65° E., altitude 33° .

Observed azimuth S. $40\frac{1}{4}^{\circ}$, E., variation $24\frac{3}{4}^{\circ}$ W.

6. True azimuth 90° , altitude 45° .

Observed azimuth N. $63^{\circ} 51'$ E., variation $26^{\circ} 9'$ W.

PROBLEM XLV.

2. $\frac{1}{4}$ past 9 A. M., azimuth S. 45° E.

3. $\frac{1}{2}$ past 4 P. M., azimuth N. 87° W.

4. $\frac{1}{2}$ past 9 A. M., azimuth S. 55° E., altitude 45° .

The shadow of course fell N. 55° W.

5. Azimuth N. 67° E. at $\frac{1}{4}$ past 6 and $\frac{3}{4}$ past 9 A. M.

Azimuth N. 67° W. at $\frac{1}{2}$ past 2 and $\frac{3}{4}$ before 5 P. M.

Greatest azimuth N. $68\frac{1}{2}^{\circ}$ E., time about a quarter past 8 A. M.

Whenever the shadow cast by a perpendicular object is exactly equal in length to the object itself, the altitude of the luminary must be just 45° .

PROBLEM XLVI.

2. On the 21st of June the sun will be due east about half past 7 o'clock A. M. and half past 4 o'clock P. M., his altitude at the above times being about 31° .

On the 21st of December the sun will be due east about half past 4 o'clock A. M. and about half past 7 o'clock P. M.; but in both cases below the horizon.

3. At 6 o'clock A. M. and 6 o'clock P. M.

4. At about 20 minutes past 8 A. M. and 40 minutes past 8 P. M.

PROBLEM XLVII.

3. $1\frac{1}{2}^{\circ}$ N.
4. $30\frac{1}{2}^{\circ}$ N
5. St. Petersburg.
6. Philadelphia.

PROBLEM XLVIII.

2. 31° .
3. In 60° .
4. Drontheim.
5. In 65° .
6. In 36° .
7. In 53° .
8. In 45° .

PROBLEM XLIX.

3. The sun's declination must increase about 4° .
4. The sun's declination must increase about $4\frac{2}{3}^{\circ}$.
5. The difference in the sun's declination is about 30° .

PROBLEM L.

2. Right ascension 212, oblique ascension 228, ascensional difference $16^{\circ} = 1$ hour and 4 minutes: hence the sun rises at 4 minutes past 7 and sets 4 minutes before 5.
3. Right ascension $38\frac{1}{4}^{\circ}$, oblique ascension $18\frac{1}{2}^{\circ}$, ascensional difference 20° , or 1 hour and 20 min.: hence the sun rises at 20 minutes before 5, and sets

20 minutes after 7. The sun's declination is about 15° N., his rising amplitude 25° to the N. of the E., and his setting amplitude 25° N. of the W.: his oblique descension is $58\frac{1}{2}^{\circ}$, and the descensional difference 20° , the same as the ascensional difference.

4. Right ascension 90° , oblique ascension 42° , ascensional difference 48° , or 3 hours and 12 minutes: hence the sun rises at 12 minutes before 3, and sets at 12 minutes after 9. The sun's declination is $23\frac{1}{2}^{\circ}$ N., his rising amplitude about 54° N. of the E., his setting amplitude about 54° N. of the W., and his oblique descension 138° .

5. Right ascension 270° , oblique ascension 285° , ascensional difference 15° , or 1 hour: hence the sun rises at 7, and sets at 5. The sun's declination is $23\frac{1}{2}^{\circ}$ S., his rising amplitude 28° N. of the E., his setting amplitude 28° N. of the W., and his oblique descension 255° .

PROBLEM LI.

2. About 13° N.
3. About 15° N.
4. About $64\frac{1}{2}^{\circ}$ N.

PROBLEM LII.

2. About $51\frac{1}{2}^{\circ}$ N.
3. About $57\frac{1}{2}^{\circ}$ N.
4. About $50\frac{1}{2}^{\circ}$ N.

PROBLEMS LIII. and LIV.

There are no examples left for solution on these problems.

PROBLEM LV.

2. There was an eclipse invisible at London.
3. There will be an eclipse invisible at London.
4. There will be an eclipse invisible at London.
5. There will be an eclipse.
6. There will not be an eclipse.

PROBLEM LVI.

There is no example left for solution on this problem.

PROBLEM LVII.

2. The eclipse was visible in Sweden, Norway, England, Portugal, great part of Africa, and part of South America.

3. The eclipse will be visible to the whole of Europe and Africa, to part of Asia and South America, &c.

4. The eclipse will be visible in England, France, Spain, Portugal, the western part of Africa, and the greater part of South America, &c.

The remaining problems on the terrestrial globe offer no examples for solution.

The Celestial Globe.

PROBLEM LXV.*

| | | Right Ascension. | Declination. |
|------------|----------------------------|------------------|--------------|
| 2. | γ Pegasi | - - 0h. 5m. | 14° 18' N. |
| α | Cassiopeæ | - - 0 32 | 55 40 N. |
| β | Andromedæ | - 1 0 | 34 46 N. |
| α | Eridani | - - 1 32 | 58 3 S. |
| α | Ceti | - - 2 54 | 3 28 N. |
| β | Persei | - - 2 57 | 40 18 N. |
| α | Tauri (<i>Aldebaran</i>) | 4 27 | 16 11 N. |
| α | Aurigæ (<i>Capella</i>) | 5 5 | 45 49 N. |
| β | Orionis (<i>Rigel</i>) | - 5 7 | 8 23 S. |
| γ | Orionis | - - 5 16 | 6 11 N. |
| α | Orionis | - - 5 47 | 7 22 N. |
| α | Argus (<i>Canopus</i>) | - 6 20 | 52 36 S. |
| α | Canis Minoris | - 7 31 | 5 38 N. |
| γ | Corvi | - - 12 7 | 16 37 S. |
| α | Bootis | - - 14 8 | 20 1 N. |
| ϵ | Virginis | - - 12 54 | 11 52 N. |

* The right ascensions and declinations are here given to the nearest minute for the beginning of the year (1841); and although this degree of precision can, of course, not be verified by the globe, yet it has been thought advisable, for the reasons specified in the Preface, to adopt it in this place.

PROBLEM LXVI.*

| | Latitudes. | Longitudes. |
|----------------------------------------|--------------|-----------------|
| 2. α Pegasi (<i>Markab</i>) | - 19° 25' N. | 351° 16' |
| β Pegasi (<i>Scheat</i>) | - 31 8 N. | 357 8 |
| α Piscis Aust. | - 21 4 S. | 331 38 |
| α Cygni (<i>Deneb</i>) | - 59 56 N. | 333 9 |
| α Aquilæ (<i>Altair</i>) | - 29 19 N. | 299 29 |
| β Cygni (<i>Albeiro</i>) | - 49 1 N. | 229 2 |
| α Lyrae (<i>Vega</i>) | - 61 45 N. | 283 4 |
| γ Draconis (<i>Rastabeni</i>) | - 74 58 N. | 265 44 |
| α Scorpii (<i>Antares</i>) | - 4 31 S. | 247 31 |
| α Bootis (<i>Arcturus</i>) | - 30 57 N. | 201 59 |
| β Geminorum (<i>Pollux</i>) | 6 40 N. | 110 59 |
| β Orionis (<i>Rigel</i>) | - 31 9 S. | 74 36 |

PROBLEM LXVII.

| | |
|-------------------------|------------------------------------------|
| 3. α Cassiopeiae | α Columbae |
| γ Cassiopeiae | β Aurigæ |
| β Arietis | α Canis Majoris (<i>Sirius</i>) |
| ζ Eridani | α Geminorum (<i>Castor</i>) |
| Pleiades | β Geminorum (<i>Pollux</i>) |

3. α Cassiopeiae α Columbae
 γ Cassiopeiae β Aurigæ
 β Arietis α Canis Majoris (*Sirius*)
 ζ Eridani α Geminorum (*Castor*)
Pleiades β Geminorum (*Pollux*)
 β Orionis (*Rigel*) ϵ Hydræ
4. In the right foot of Leo, and about 6 degrees west of Regulus.

* The longitudes and latitudes here quoted are the means of the longitudes and latitudes of the respective stars according to the catalogues of Hevelius, Flamsteed, Bradley, and La Caille; the longitudes being corrected for the precession of the equinoxes (to the nearest minute) to January, 1840.

5. About 3° north-west of the Pleiades.
6. About 3° east of the left foot of Ophiucus, and about 6° north of Antares in Scorpio.

PROBLEM LXVIII.

2. About 3° north of δ Sagittarius.
3. α Ceti α Canis Majoris
 α Tauri α Geminorum
 β Orionis α Leonis
 α Aurigæ α Coron. Borealis
 α Orionis α Piscis Australis
4. The places of the planets are,—
 \wp Between the Bull's horns.
 ϱ A little below δ , in the tail of Aries.
 \wp Near the star Spica, in the constellation Virgo.
 ϖ About 3° from the star ϱ , in the right leg of Ophiucus.
 \wp Near the star μ , to the left of the bow of Sagittarius.
 \wp About 6° below the star ι , in the Little Fish.

PROBLEM LXIX.

3. On the meridian between the zenith and the pole are, the feet of Cassiopeia, the horns of the Rein Deer, and the right foot of Cepheus: below the pole, the meridian is occupied by the left foot of Cepheus, the tail of Draco, the tail of Ursa Major,

and the constellation Canes venatici. From the zenith to the southern point of the horizon the meridian passes through the knees of Andromeda, the tail of the more northerly of the Zodiacial Fishes, and the middle of the constellation Cetus. The head of Leo, the Crab, the Lesser Dog, the fore part of the Hare, the Sceptre of Brandenburg and part of the Chemical Furnace have just risen above the eastern verge of the horizon, between which and the meridian we find the following constellations: viz., the Great Bear, the Twins, the Lynx, Camelopardalus, Auriga, and part of Perseus, in the north-east quarter; and in the south-east quarter are Orion, Taurus, part of Perseus, Musca, Aries, the feet of Andromeda, Triangulum, the northern part of Eridanus, and the head and fore part of Cetus. About the western verge of the horizon are the chest and upper parts of Bootes, Corona Borealis, the chest of Hercules, Cerberus, the head of Antinous, and the tail of Capricornus. In the north-west quarter of the heavens we have Cepheus, Draco, greater part of Hercules, Lyra, Cygnus, Vulpecula et Anser; and Aquila, and the south-west quarter is occupied by the head of Cassiopeia, greater part of Andromeda, Pegasus, Equuleus, Delphinus, Pisces, Aquarius, and the hinder part of Cetus.

4. The circle of perpetual apparition is a parallel to the equinoctial, situated $38\frac{1}{2}^{\circ}$ north of it. The following are some of the principal constellations comprehended by this circle. The two Bears, the more northerly of the Greyhounds, the whole of Draco,

the head and right arm of Bootes, the feet of Hercules, part of Cygnus, Lacerta, Cepheus, Cassiopeia, Tarandus, Camelopardalus, nearly the whole of Perseus, and the Lynx.

5. The circle of perpetual occultation is 34° distant from the equinoctial, and comprehends, among other constellations, the Indian, the Peacock, the whole of the Centaur except the head, nearly the whole of Argo Navis, &c.

6. The stars comprehended by the parallel of 72° N. declination, neither rise to Otaheite nor set to Jamaica.

7. If to lose sight of the seven principal stars in Ursa Major be intended, he must arrive at the fortieth degree of south latitude, when the star at the end of the tail of Ursa Major (the most southerly of the seven) will just sweep his horizon: in other words, he must travel $91\frac{1}{2}^{\circ}$ S. of London.

8. The equinoctial being the circle both of perpetual apparition and perpetual occultation, all the stars north of it will be constantly above the horizon, and all those south of it will be continually below it.

PROBLEM LXX.

There is no example to solve in this problem.

PROBLEM LXXI.

3. Sirius rises at a quarter past 5 in the evening, culminates at a quarter before 10, and sets about a quarter past 2 in the morning.

4. Venus rose about a quarter past 8, culminated

about a quarter past 12 P.M., and set about a quarter past 8 P.M.: she was, therefore, an evening star.

5. *Aldebaran* rises at a quarter before 5 o'clock P.M., culminates about twenty minutes past 12 at midnight, and sets about a quarter before 8 in the morning.

6. Mars will rise about half past 5 P.M., culminate about 11h. P.M., and will set about a quarter past 4 A.M. of May 2d.

PROBLEM LXXII.

2. Rising amplitude 27° N. of the E., setting amplitude 27° N. of the W., oblique ascension 44° , oblique descension 89° , and its diurnal arc 15 hours.

3. Rising amplitude 35° N. of the E., setting amplitude 35° N. of the W., oblique ascension 182° , oblique descension 240° , and its diurnal arc about 16 hours.

4. Rising amplitude 11° N. of the E., setting amplitude 11° N. of the W., oblique ascension $70\frac{1}{2}^\circ$, oblique descension 86° , and its diurnal arc 13 hours.

PROBLEM LXXIII.

2. Rises acronically about the 4th of December, and sets acronically about the 24th of May.

3. Rises acronically about the 12th of August, and sets acronically about the 4th of April.

4. Rises acronically about the 28th of January, and sets acronically about the 20th of April.

PROBLEM LXXIV.

2. Rises cosmically about the 11th of August, and sets cosmically about the 18th of November.
3. Rises cosmically about the 1st of June, and sets cosmically about the 27th of October.
4. Rises cosmically about the 31st of July, and sets cosmically about the 20th of December.

PROBLEM LXXV.

3. Rises heliacally about the 20th of October, and sets heliacally about the 4th of November.
4. Rises heliacally about the 15th of September, and sets heliacally about the 30th of May.
5. Rises heliacally about the 15th of August, and sets heliacally about the 25th of May.
6. First elevating the globe for the latitude of Cairo, and bringing Sirius to the eastern verge of the horizon, it will be seen that the 108th degree of the equinoctial rises with that star. Now, in order that Sirius may rise heliacally on Christmas-day, it must rise when the sun's place for that day (or the 4th degree of Capricornus) is 12° below the horizon: bringing, therefore, the globe into that position, it will appear that, in order for Sirius to rise heliacally, he must rise with the 273d degree of the equinoctial, the difference being 165° or $594000''$. But it has been shown (Def. 64th, page 15.), and may be easily calculated, that, at the rate of $50\frac{1}{4}''$ per annum, a whole revolution of the equinoctial points is performed in 25,791 years:

therefore $50\frac{1}{4}''$: 1 year :: $594000''$: 11820 years, the time which must elapse before Sirius will rise heliacally at Cairo on Christmas-day.

PROBLEM LXXVI.

3. α Bootis, *Arcturus*.
4. α Tauri, *Aldebaran*.
5. γ Arietis, μ Scorpii, &c.
6. The same stars which in the last example were found to rise and set acronically.

PROBLEM LXXVII.

There is no question for solution in this example.

PROBLEM LXXVIII.

2. 22° .
3. $22\frac{1}{2}^\circ$
4. $56\frac{1}{2}^\circ$
5. $56\frac{1}{2}^\circ$
6. $59\frac{1}{2}^\circ$

PROBLEM LXXIX.

2. Between the first and second, the moon will pass near α Leonis. Between the second and third, she will pass those stars in Leo that are on or near to the ecliptic; she will next pass ν Leonis, which will suffer an occultation. Her last station will be about 6° to the west of the star Spica in Virgo.

PROBLEM LXXX.

2. The only planets that will be seen above the horizon will be Jupiter, Saturn, and the Moon. Mars will be near setting.

PROBLEM LXXXI.

2. Mars, Jupiter, and Saturn will be visible, and the Moon will be rising.

PROBLEM LXXXII

3. Venus will be a morning star, and will rise about four hours before the sun.

4. Jupiter's longitude will be about $8^{\circ} 11\frac{1}{2}^{\circ}$. He will be an evening star, and will set about five hours and a half after the sun.

PROBLEM LXXXIII.

2. About $58\frac{5}{4}^{\circ}$
3. About $22\frac{1}{4}^{\circ}$
4. About $21\frac{1}{2}^{\circ}$
5. About 66°
6. About 51°

PROBLEM LXXXIV.

2. The Bahama Islands; Cape Bojador, Africa; the north of Formosa; Oude, in Bengal, &c.

3. Greatest north declination $28^{\circ} 48'$, or about $28\frac{5}{4}^{\circ}$. Vertical nearly to the Canary Isles, part of

Egypt, the northern extremities of the Red Sea and Persian Gulf, northern parts of California, the Gulf of Mexico, Florida, &c.

4. Greatest south declination $28^{\circ} 48'$, or $28\frac{4}{5}^{\circ}$, Passes vertically over Cape Voltas and Orange River in Africa, Norfolk Island, &c.

PROBLEM LXXXV.

3. Ten minutes past 9 in the evening, and the azimuth N. 52° W.
4. 5 minutes past 4 o'clock A.M., the azimuth being S. 51° W.
5. Half-past 3 o'clock A.M., the azimuth S. 34° E.

PROBLEM LXXXVI.

2. Altitude 40° , and azimuth S. 41° W.
3. About N.W. $\frac{1}{2}$ W. and altitude 30° .
4. Altitude 14° , and azimuth N. 70° W.

PROBLEM LXXXVII.

2. About a quarter past 11 o'clock P.M., altitude about $27\frac{1}{2}^{\circ}$.
3. 10 o'clock P.M. altitude about 28° .
4. About a quarter past 8 P.M., altitude about 48° .

PROBLEM LXXXVIII.

2. 44° S.
3. 28° N.
4. $66\frac{1}{2}^{\circ}$ N.

PROBLEM LXXXIX.

2. A quarter past 8 P.M., common azimuth S. 69° E.
3. 14 hours from noon, or 2 o'clock in the morning, the common azimuth being S. 38° W.
4. Midnight, the common azimuth N. 69° W
5. 10 minutes before 4 P.M., common azimuth N. 56° E.

PROBLEM XC.

2. At a quarter before 6 in the evening.
3. About 7 o'clock in the evening.
4. At a quarter before 12 at night.

PROBLEM XCI.

2. 60° N.
3. 57° N.
4. 50° N.

PROBLEM XCII.

2. 69° S.
3. 63° N.
4. 64° N.

PROBLEM XCIII.

3. The degree cut is $12\frac{1}{2}$ of Taurus; the day sought, therefore, is the 3d of May.
4. The star culminates with $3\frac{1}{2}$ of Scorpio, and the day sought is the 27th of October.

5. The degree intersected by the meridian is the 1st of Aries: hence the day required is the 21st of March.

6. On the 12th of August.

PROBLEM XCIV.

3. *Bellatrix* (γ Orionis), 10 o'clock in the evening.

Menkar (α Ceti), 5 minutes past 11 in the morning.

Etanin (γ Draconis) 5 minutes before 6 in the evening.

Dubhi (α Ursæ Majoris), 5 minutes before 5 in the morning.

Mirach (β Andromedæ), a quarter past 12 at midnight.

Aldebaran (α Tauri), 20 minutes before 7 in the evening.

(β Arietis) 5 minutes before 11 at night.

(β Tauri) 5 minutes before 9 at night.

4. Right ascension of Sirius 6 hrs. 38 min.

+ 24 hrs. 0

30 hrs. 38 min.

Right ascension of the Sun 17 hrs. 45 min.

12 hrs. 53 min.;

therefore Sirius culminates at 8 minutes before 1 o'clock in the morning.

PROBLEM XCV.

3. Altitude 34° , day of the month 13th of May.
 4. Altitude 20° , day of the month 4th of May.

PROBLEM XCVI.

2. $35\frac{1}{2}^{\circ}$ N.
 3. 25° N.
 4. 40° N.

PROBLEM XCVII

2. $57\frac{1}{2}^{\circ}$ N.
 3. $51\frac{1}{2}^{\circ}$ N.
 4. $49\frac{1}{4}^{\circ}$ N.

PROBLEM XCVIII.

| Nm. | Deg. | Alt. | Asim. | Med. | Colli | Alt. | R. A. | Eclip. | Ris. | Eclip. | Set. |
|------|-------------------------|-------------------------|--------------------|------|--------------|-------------------------|--------------------------|---------------------------------|--------------|-------------------------|--------------|
| 2. r | $16\frac{1}{2}^{\circ}$ | $39\frac{1}{2}^{\circ}$ | S. 38° E. | X | 16° | $32\frac{1}{2}^{\circ}$ | $347\frac{1}{2}^{\circ}$ | $\approx 16\frac{1}{2}^{\circ}$ | r | $16\frac{1}{2}^{\circ}$ | |
| 3. r | 15° | $14\frac{1}{2}^{\circ}$ | S. 11° E. | w | 4° | 14° | 278° | r | 15° | Δ | 15° |
| 4. r | 2° | 30° | S. 43° E. | m | 25° | 24° | 327° | $\approx 2^{\circ}$ | r | 2° | |

PROBLEM XCIX.

2. α Leonis.
 3. α Canis Majoris.
 4. β Pegasi.

PROBLEM C.

2. 4 hrs. 20 min. morn. of 18th March. In this question for N. read S.
 3. 11 hrs. 23 min. in the evening.

PROBLEM CI.

2. By the *Nautical Almanac*, the moon h. m. comes to the meridian at - - - - 16 56

The time from the right hand table, p. 332, answering to 16h. 56m., is about - 1 8

| | | | | |
|--------------------------------------------------|-------------|---|----|----|
| | Difference | - | 15 | 48 |
| Time of high water at London, at full and change | - | - | 2 | 7 |
| | Sum | - | 17 | 55 |
| | To subtract | - | 12 | 24 |
| | | | 5 | 31 |

Time of high water at London Bridge, the same as given in the *Nautical Almanac*, p. 546.

- 3. 4 hrs. 35 min. in the morning.
- 4. 6 hrs. 5 min. in the afternoon.
- 5. 1 hr. 30 min. in the morning.
- 6. 8 hrs. 41 min. in the afternoon.

PROBLEM CII.

Has no example requiring solution.

THE END.

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